

WR-35
Rev (5-01)

DATE: December 19, 2008
API #: 47-051-01133

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: PPG Industries, Inc. Operator Well No.: No. 39 Water Injection Well

LOCATION: Elevation: 638.8 ft. Quadrangle: New Martinsville

District: Franklin County: Marshall
Latitude: 2200 Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude: 4900 Feet West of 80 Deg. 50 Min. 00 Sec.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	20 in. A53, Gr. B	82 ft.	82 ft.	100 CF
	13-3/8 in. H-40	2200 ft.	2200 ft.	1400 CF
	8-5/8 in. L-80	6200 ft.	6200 ft.	2000 CF
Company: PPG Industries, Inc.				
Address: N. St. RL 2, New Martinsville, WV				
Agent: J. Thomas Horan				
Inspector: Bill Hatfield				
Date Permit Issued: May 14, 2008				
Date Well Work Commenced: 8/23/08				
Date Well Work Completed: 9/25/08				
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Depth (feet): 6796 ft.				
Fresh Water Depth (ft.): 80 ft.				
Salt Water Depth (ft.): 6672 ft.				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 169' to 171', 231' to 232', 259' to 262'				

OPEN FLOW DATA

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: PPG INDUSTRIES, INC.
By: J. T. Horan
Date: 12/19/08

GEOLOGIC DATA FOR COLUMBIA-SOUTHERN CHEMICAL CORPORATION'S
BRINE WELLS - No. 8 & No. 9
FRANKLIN DISTRICT, MARSHALL COUNTY, NATRIUM, WEST VIRGINIA



GRADE: 633'

<u>ERA</u>	<u>SYSTEM</u>	<u>SERIES OR GROUP</u>	<u>FORMATION OR MEMBER</u>	<u>ELEV. WELL NO. 8</u>	<u>ELEV. WELL NO. 9</u>
Geoszoic	Quartnary	Recent	(Alluvium)	0- 79	0- 60
Paleozoic				79-T.D.	60-T.D.
	Pennsylvanian			79-1246	60-1250
		Mononghelia		79- 246	60- 256
			Swickley Coal	165- 167	164- 167
			Pittsburgh Coal	240- 246	250- 256
		Conemaugh		246- 780	256- 785
			Ames Lime	478- 481	469- 487
			Saltsburg Sd. (Cow Run)	502- 541	495- 528
			Mehoning Lime	742- 763	735- 753
		Allegheny		780-1051	785-1035
			Upper Freeport Coal	Absent	Absent
			Upper Freeport Lime	795- 806	797- 803
			Lower Freeport Coal	850- ?	845- (Horizon)
			Upper Kittanning Coal	Absent	882- 884
			Lower Kittanning Coal (Horizon)	1010	1023
		Pottsville		1051-1246	1035-1252
			Homewood Sand	1051-1074	1035-1050
			Connoquessing Sand	1107-1120	1109-1115
		Mississippian		1246-1966	1252-1960
		(These are affected by (an (unconformity in (Northern W.Va. & Western (Penna.	(Mauch Chunk (St. Genevie (Greenbrier Lime (Loyalhanna Lime & Sand	1286-1391 1286-1327 1327-1391	1292-1387 1292-1321 1321-1378



<u>ERA</u>	<u>SYSTEM</u>	<u>SERIES OR GROUP</u>	<u>FORMATION OR MEMBER</u>	<u>ELEV. WELL NO. 8</u>	<u>ELEV. WELL NO. 9</u>
		Burlington		1391-1945	1378-1955
			Pocono Formation	1391-1966	1378-1960
			Weir Sand	1764-1800	1758-1768
			Berea Sand	1945-1966	1955-1960
	Devonian				
		Upper	(Venango-Catshill (Chemung (Portage	1966-2590 ? 2590 ? -	1960-2576 ? 2576 ? -
		Middle	(Genesee (Hamilton (Marcellous) (Tioga Bentonite (Onondaga Lime	-4435 ? ? 4435-5245 5245-5818 5815 5818-6042	-4430 ? 4430-5236 ? 5236-5821 5820 5821-6040
		Lower	(Oriskany Sand (Helderburg Lime	6042-6109 6109-6397	6040-6119 6119-6406
	Silurian			6397-T.D.	6406-T.D.
		Cayugan		6397-T.D.	6406-T.D.
			Tonoloway Lime	6397-6497	6406-6507
			Salina Formation	6497-T.D.	6507-T.D.
			Salt	6715-6762	6720-6746
				6771-6780	6753-6776
				6785-6814	6780-6810
				T.D.-6818	6816-6826
					6834-6837
					T.D.-6840